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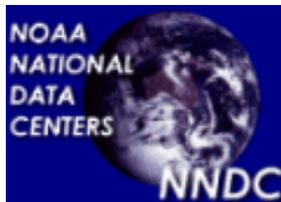
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- NA-6 Da Silva, A., C. Young, and S. Levitus, 1994: Atlas of Surface Marine Data 1994, Vol. 1: **Algorithms and Procedures**. NOAA Atlas NESDIS 6. U.S. Gov. Printing Office, Wash., D.C., 83 pp.
- NA-7 Da Silva, A., C. Young, and S. Levitus, 1994: Atlas of Surface Marine Data 1994, Vol. 2: **Anomalies of Directly Observed Quantities**. NOAA Atlas NESDIS 7, U.S. Gov. Printing Office, Wash., D.C., 416 pp.
- NA-8 Volume 3: Anomalies of Heat and Momentum Fluxes (NOAA Atlas NESDIS 8, 411 pp.) Da Silva, A., C. Young, and S. Levitus, 1994: Atlas of Surface Marine Data 1994 Vol. 3: **Anomalies of Fluxes of Heat and Momentum**. NOAA Atlas NESDIS 8. U.S. Gov. Printing Office, Wash., D.C., 413 pp.
- NA-9 Da Silva, A., C. Young, and S. Levitus, 1994: Atlas of Surface Marine Data 1994 Vol. 4: **Anomalies of Fresh Water Fluxes**. NOAA Atlas NESDIS 9. U.S. Gov. Printing Office, Wash., D.C., 308 pp.
- NA-10 Da Silva, A., C. Young, and S. Levitus, 1994: Atlas of Surface Marine Data Vol. 5: **Miscellaneous Derived Quantities**. NOAA Atlas NESDIS 10. U.S. Gov. Printing Office, Wash., D.C., 416 pp.
- NA-12 Da Silva, A., C. Young, and S. Levitus, 1997: Atlas of Surface Marine Data 1994, Vol. 6: **Heat Flux Sensitivity to Sea Surface Temperature**. NOAA Atlas NESDIS 12. U.S. Gov. Printing Office, Wash., D.C., pp. 103.
- NA-13 Da Silva, A., C. Young, and S. Levitus, 1997: Atlas of Surface Marine Data 1994, **Suppl. A: Anomalies of Directly Observed Quantities and Surface Marine Fluxes for 1990-1993**. NOAA Atlas NESDIS 13. U.S. Gov. Printing Office, Wash., D.C., 128 pp.
- NA-17 Da Silva, A., C. Young, and S. Levitus, 1997: Atlas of Surface Marine Data 1994, **Suppl. B: Procedures for ½ x ½ data set**. NOAA Atlas NESDIS 17. U.S. Gov. Printing Office, Wash., D.C., 128 pp.

The **World Ocean Database 1998** publications series display the spatial and temporal distribution of the data in the WOD98 data set. WOD98 represents the first part of an extension of earlier work, the World Ocean Atlas 1994 (WOA94). WOD98 expands on WOA94 by including the additional variables nitrite, pH, alkalinity, chlorophyll, and plankton, as well as all available metadata and meteorology. The second part of this extension is the World Ocean Atlas 1998 (WOA98) which presents objectively analyzed fields of many of the variables in WOD98 (see next section). Each WOD98 publication is dedicated to a single parameter in the data set.

- NA-18 Levitus, S., T.P. Boyer, M.E. Conkright, T. O'Brien, J. Antonov, C. Stephens, L. Stathoplos, D. Johnson, R. Gelfeld, 1998: NOAA Atlas NESDIS 18, World Ocean Database 1998: Volume 1: **Introduction**, U.S. Gov. Printing Office, Wash., D.C., 346 pp.

- NA-19 Levitus, S., T.P. Boyer, M.E. Conkright, D. Johnson, T. O'Brien, J. Antonov, C. Stephens, R. Gelfeld, 1998: NOAA Atlas NESDIS 19, World Ocean Database 1998 Volume 2: **Temporal Distribution of Mechanical Bathythermograph Profiles**, U.S. Gov. Printing Office, Wash., D.C., 286 pp.
- NA-20 Boyer, T.P., J. Antonov, S. Levitus, M.E. Conkright, T. O'Brien, C. Stephens, D. Johnson, R. Gelfeld, 1998: NOAA Atlas NESDIS 20, WORLD OCEAN DATABASE 1998 Volume 3: **Temporal Distribution of Expendable Bathythermograph Profiles**, U.S. Gov. Printing Office, Wash., D.C., 170 pp.
- NA-21 Boyer, T.P., M.E. Conkright, S. Levitus, C. Stephens, T. O'Brien, D. Johnson, R. Gelfeld, 1998: NOAA Atlas NESDIS 21, WORLD OCEAN DATABASE 1998 Volume 4: **Temporal Distribution of Conductivity/Salinity-Temperature-Depth (Pressure) Stations**, U.S. Gov. Printing Office, Wash., D.C., 160 pp.
- NA-22 Boyer, T.P., M.E. Conkright, S. Levitus, D. Johnson, J. Antonov, T. O'Brien, C. Stephens, R. Gelfeld, 1998: NOAA Atlas NESDIS 22, WORLD OCEAN DATABASE 1998 Volume 5: **Temporal Distribution of Station Data Temperature and Salinity Profiles**, U.S. Gov. Printing Office, Wash., D.C., 108 pp.
- NA-23 Conkright, M.E., T.P. Boyer, S. Levitus, D. Johnson, T. O'Brien, C. Stephens, R. Gelfeld, 1998: NOAA Atlas NESDIS 23, WORLD OCEAN DATABASE 1998 Volume 6: **Temporal Distribution of Station Data Nutrient Profiles**, U.S. Gov. Printing Office, Wash., D.C., 296 pp.
- NA-24 O'Brien, T., M.E. Conkright, T.P. Boyer, S. Levitus, D. Johnson, C. Stephens, R. Gelfeld, 1998: NOAA Atlas NESDIS 24, WORLD OCEAN DATABASE 1998 Volume 7: **Temporal Distribution of Station Data Oxygen, pH, and Alkalinity Profiles**, U.S. Gov. Printing Office, Wash., D.C., 235 pp.
- NA-25 Conkright, M.E., T. O'Brien, L. Stathoplos, C. Stephens, T.P. Boyer, D. Johnson, S. Levitus, R. Gelfeld, 1998: NOAA Atlas NESDIS 25, WORLD OCEAN DATABASE 1998 Volume 8: **Temporal Distribution of Station Data Chlorophyll and Plankton Profiles**, U.S. Gov. Printing Office, Wash., D.C., 129 pp.

The **World Ocean Atlas 1998** publication series presents global, objectively analyzed fields of major ocean parameters on a one-degree latitude-longitude grid for selected standard depth levels from the sea surface to 5500 m depth. Produced by the NODC Ocean Climate Laboratory, the atlases present analyses of temperature, salinity, oxygen, phosphate, nitrate, and silicate data. This 1998 release expands on the previous 1994 atlas set by including the additional variables nitrite, pH, alkalinity, chlorophyll, and plankton, as well as all available metadata and meteorology. The data analysis and quality control procedures are described in Internal Report 14. These analyses are also available on a set of 3 CD-ROMs. The World Ocean Atlas 1998 were produced from the NODC's data holdings as of the first quarter of 1994, as well as some of the data submitted to NODC since 1994. In addition, data gathered as a result of the IOC/IODE GODAR project, the Global Ocean Database project and Global Temperature Salinity Profile Project (GTSP) project, were included in this study.

- NA-27 Antonov, J., Levitus, S., T.P. Boyer, M. Conkright, T. O'Brien, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 1: **Temperature of the Atlantic Ocean**. NOAA Atlas NESDIS 27. U.S. Gov. Printing Office, Wash., D.C., 166 pp.
- NA-28 Antonov, j., Levitus, S., T.P. Boyer, M. Conkright, T. O'Brien, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 2: **Temperature of the Pacific Ocean**. NOAA Atlas NESDIS 28. U.S. Gov. Printing Office, Wash., D.C., 166 pp.
- NA-29 Antonov, j., Levitus, S., T.P. Boyer, M. Conkright, T. O'Brien, C. Stephens, B. Trotsenko, 1998: World Ocean Atlas 1998 Vol. 3: **Temperature of the Indian Ocean**. NOAA Atlas NESDIS 29. U.S. Gov. Printing Office, Wash., D.C., 166 pp.
- NA-30 Boyer, T.P., Levitus, S., J. Antonov, M. Conkright, T. O'Brien, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 4: **Salinity of the Atlantic Ocean**. NOAA Atlas NESDIS 30. U.S. Gov. Printing Office, Wash., D.C., 166 pp.

- NA-31 Boyer, T.P., Levitus, S., J. Antonov, M. Conkright, T. O'Brien, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 5: **Salinity of the Pacific Ocean**. NOAA Atlas NESDIS 31. U.S. Gov. Printing Office, Wash., D.C., 166 pp.
- NA-32 Boyer, T.P., Levitus, S., J. Antonov, M. Conkright, T. O'Brien, C. Stephens, B. Trotsenko, 1998: World Ocean Atlas 1998 Vol. 6: **Salinity of the Indian Ocean**. NOAA Atlas NESDIS 32. U.S. Gov. Printing Office, Wash., D.C., 166 pp.
- NA-33 O'Brien, T., S. Levitus, T.P. Boyer, M. Conkright, J. Antonov, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 1: **Oxygen of the Atlantic Ocean**. NOAA Atlas NESDIS 33. U.S. Gov. Printing Office, Wash., D.C., 234 pp.
- NA-34 O'Brien, T., S. Levitus, T.P. Boyer, M. Conkright, J. Antonov, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 2: **Oxygen of the Pacific Ocean**. NOAA Atlas NESDIS 34. U.S. Gov. Printing Office, Wash., D.C., 234 pp.
- NA-35 O'Brien, T., S. Levitus, T.P. Boyer, M. Conkright, J. Antonov, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 3: **Oxygen of the Indian Ocean**. NOAA Atlas NESDIS 35. U.S. Gov. Printing Office, Wash., D.C., 234 pp.
- NA-36 Conkright, M., T. O'Brien, S. Levitus, T.P. Boyer, J. Antonov, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 10: **Nutrients and Chlorophyll of the Atlantic Ocean**. NOAA Atlas NESDIS 36. U.S. Gov. Printing Office, Wash., D.C., 245 pp.
- NA-37 Conkright, T. O'Brien, M., S. Levitus, T.P. Boyer, J. Antonov, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 11: **Nutrients and Chlorophyll of the Pacific Ocean**. NOAA Atlas NESDIS 37. U.S. Gov. Printing Office, Wash., D.C., 245 pp.
- NA-38 Conkright, T. O'Brien, M., S. Levitus, T.P. Boyer, J. Antonov, C. Stephens, 1998: World Ocean Atlas 1998 Vol. 12: **Nutrients and Chlorophyll of the Indian Ocean**. NOAA Atlas NESDIS 38. U.S. Gov. Printing Office, Wash., D.C., 245 pp.

Miscellaneous Atlases

- NA-11 Boyer, T.P., and S. Levitus, 1997: **Objective Analyses of Temperature and Salinity for the World Ocean on a 1/4° Grid**. NOAA/NESDIS Atlas 11. U.S. Gov. Printing Office, Wash., D.C., 62 pp.
- NA-14 Monterey, G.I., and Levitus, S., 1997: **Seasonal Variability of Mixed Layer Depth for the World Ocean**. NOAA NESDIS Atlas 14, U.S. Gov. Printing Office, Wash., D.C., 5 pp. 87 figs.
- NA-15 Levitus, S., G.I. Monterey, and T. Boyer, 1997: **Seasonal Variability of Dynamic Height and its Fourier Analysis**. NOAA NESDIS Atlas 15, U.S. Gov. Printing Office, Wash., D.C., 9 pp. and 38 figs.
- NA-16 Levitus, S., and J. Antonov, 1997: **Climatological and Interannual Variability of Temperature, Heat Storage, and Rate of Heat Storage in the Upper Ocean**, NOAA NESDIS Atlas 16. U.S. Gov. Printing Office, Wash., D.C., 6 pp., 186 figs.
- NA-26 Levitus, S., Smolyar, I., Matishov, G., Zhev, A., Golubev, V., Slobodin, V., 1998: **Climatic Atlas of the Barents Sea 1998: Temperature, Salinity, Oxygen**. NOAA Atlas NESDIS 26. U.S. Gov. Printing Office, Wash., D.C., 144 pp.

■ NOAA TECHNICAL REPORT SERIES

- TR-79 Conkright, M.E., T. Boyer, and S. Levitus 1994: **Quality Control and Processing of Historical Oceanographic Nutrient Data**. NOAA Technical Report NESDIS 79, National Oceanographic Data Center, Wash., D.C., 75 pp.
- TR-81 Boyer, T. and S. Levitus, 1994: **Quality Control of Oxygen, Temperature and Salinity Data**. NOAA Technical Report No. 81, National Oceanographic Data Center, Wash., D.C., 65 pp.
- TR-87 NOAA, 1997: Proceedings of the International Workshop on Oceanographic Biological and Chemical data Management. NOAA Tech. Report NESDIS 87, Washington, D.C., 224 pp.

■ NODC INTERNAL REPORTS

- IR-14 Conkright, S. Levitus, T. O'Brien, T.P. Boyer, C. Stephens, D. Johnson, L. Stathoplos, O. Baranova, J. Antonov, R. Gelfeld, J. Burney, J. Rochester, C. Forgy, 1998: **World Ocean Database 1998. CD-ROM Data Set Documentation, Version 1.1**. National Oceanographic Data Center Internal Report 14. 121 pp.

■ KEY TO OCEANOGRAPHIC RECORDS DOCUMENTATION (KORD)

- KD-18 Levitus, S. and R. Gelfeld, 1992: National Oceanographic Data Center **Inventory of Oceanographic Profiles: Global Distributions by Year for All Countries**. Key to Oceanographic Records Documentation No. 18, 242 pp. PB93-116531.
- KD-19 Levitus, S., R. Gelfeld, T. Boyer, and D. Johnson, 1994: **Results of the NODC and IOC Data Oceanographic Data Archaeology and Rescue projects. Report 1**. Key to Oceanographic Records Documentation No. 19, National Oceanographic Data Center, Wash., D.C., 67 pp.

■ MISCELLANEOUS PUBLICATIONS AND INFORMATION PRODUCTS

- MS-8 **Proceedings of the Ocean Climate Data Workshop**, February 18-21, 1992. PB93-15743
- MS-9 **Earth System Monitor**
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DEPARTMENT OF COMMERCE REGULATIONS REQUIRE PREPAYMENT FOR ALL NON-FEDERAL ORDERS.

Checks and money orders must be in U.S. dollars drawn on a U.S. bank, made payable to "NOAA National Data Centers - NODC", and contain your banks' 9-digit ABA (American Banking Association) routing and transit number.

Do not send cash.

Orders may be charged to a credit card (Visa, MasterCard, American Express, or Discover) by mail, telephone, fax or e-mail. Please include credit card account number, expiration date, authorized signature (if by fax or mail), and telephone number are required.

PAYMENT METHOD

G Enclosed check or money order payable to "NOAA National Data Centers - NODC"

Mail this form with **check or money order** to: NOAA National Data Centers
Attn.: Fiscal Group
151 Patton Avenue
Asheville, NC 28801



• Please charge to my: **G Visa** **G MasterCard** **G American Express** **G Discover**

Account No. _____ Expiration Date _____

Authorized charge card signature _____

Please print name _____

Credit Card Orders and inquiries should be directed to:

National Oceanographic Data Center
User Services Inter-divisional Team
NOAA/NESDIS E/OC1, SSMC3, 4th Floor
1315 East-West Highway
Silver Spring, MD 20910-3282

TELEPHONE: 301-713-3277 # FAX: 301-713-3302 # E-MAIL: services@nodc.noaa.gov

• **Foreign wires** should be sent directly to BankOne, routing transit code 0710-00013, with credit to DDA #11-71542 (NOAA National Data Centers). *You must add an additional \$15 to your order to cover the bank's service charge.*

Order online and save at the *NOAA National Data Centers Online Store* accessible via the NODC web site at <http://www.nodc.noaa.gov/> or via <http://www.nndc.noaa.gov>